



# NMMSS News

Nuclear Materials Management & Safeguards System  
Published Periodically by & for NMMSS Users

November 2015

## Topics in this Issue

- NMMSS 2016 Annual Users Training Meeting
- Changes at the Nuclear Regulatory Commission
- Imports of Uranium from Russia
- More Highlights of the NMMSS 2015 Annual Users Training Meeting and the Nevada National Security Site Tour
- NRC Reconciliation – Material Status Reports Are Almost Due!
- Upcoming DOE and NRC Training Courses
- Recent NRC Reconciliation Success
- Available NMMSS Products
- NMMSS Website Updates
- Transaction and Inventory Due Dates for DOE Sites
- Upcoming 2015/2016 Observed Holidays
- NMMSS Points of Contact
- Unclassified Mail Addresses

## NMMSS 2016 Annual Users Training Meeting

The Nuclear Materials Management and Safeguards System (NMMSS) 2016 Annual Users Training Meeting will be held May 9–12, 2016, in New Orleans, Louisiana.



The NMMSS is the U.S. Government's official information system containing current and historical accounting data and other related nuclear material information collected from both government and commercial nuclear facilities. The information serves a critical role in aiding risk-informed decision making in areas related to regulatory functions, international programs, materials management, program management, and financial management.

The NMMSS 2016 four-day event provides a unique training and information sharing opportunity for Nuclear Regulatory Commission (NRC) licensees, the Department of Energy (DOE)/National Nuclear Security Administration (NNSA) Federal and contractor organizations, and other domestic and international entities with responsibility for tracking and reporting nuclear materials.

A draft agenda, training topics, and information on registering for the meeting and hotel will be available on the NMMSS website in the near future.



*NMMSS News is sponsored by the Department of Energy and the Nuclear Regulatory Commission.*

## Changes at the Nuclear Regulatory Commission

The Nuclear Regulatory Commission (NRC) has appointed Ms. Mirabelle Shoemaker as a joint NRC Project Manager for the NMMSS contract. Mirabelle has been working with Brian Horn since March to learn about NMMSS and is the NRC joint point of contact for issues involving NMMSS.



You are encouraged to contact either Mirabelle (telephone 301-415-7363, [Mirabelle.shoemaker@nrc.gov](mailto:Mirabelle.shoemaker@nrc.gov)) or Brian (telephone 301-415-7440, [Brian.horn@nrc.gov](mailto:Brian.horn@nrc.gov)) with questions related to NMMSS reporting and NRC compliance.

Brian Horn has also announced that he will be retiring from the NRC at the end of December, 2015. Brian has been the NRC's point of contact for NMMSS issues for the past 19 years. Starting January 1, 2016, Mirabelle Shoemaker will be the NRC point of contact for NMMSS issues involving NRC licensees and Agreement State Licensees.

**Submitted by: Mirabelle O. Shoemaker**, Nuclear Regulatory Commission 301-415-7363

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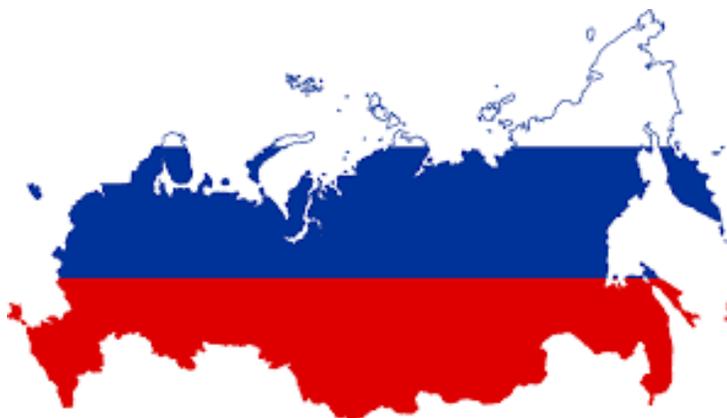
## Imports of Uranium from Russia

Earlier this year, imports of low enriched uranium arrived from the Russian Federation and were delivered to a number of licensed facilities. The licensed facilities contacted the NRC seeking clarification as to whether the low enriched uranium shipments contained uranium obligated to the Russian Federation. The Department of Energy contacted Russian officials and confirmed that, to date, none of the low enriched uranium shipped to the U.S. is Russian obligated.

The NRC has been informed that some future shipments of low enriched uranium from the Russian Federation will likely contain Canadian and/or Australian obligated uranium. NRC will share any notifications of such proposed shipments with the licensed facilities.

The NRC wishes to remind industry that, as a general rule, it sends licensed facilities a copy of the official government-to-government communications stating that a proposed import is subject to an Agreement for Cooperation. The facility then replies back to the NRC confirming that it will identify and track the nuclear material as obligated.

If you have additional questions on this article, please contact Mr. Santiago Aguilar at the NRC at 301-415-7918.





## NRC Reconciliation – Material Status Reports Are Almost Due!

Nuclear Regulatory Commission (NRC) regulations require licensees to report to NMMSS if they possess one gram or more of special nuclear material (SNM) (plutonium, uranium-233, or uranium-235 contained in enriched uranium) or one kilogram or more of foreign-obligated source material (natural uranium, depleted uranium, or thorium). Most NRC licensees report to NMMSS by calendar year. This means that after the New Year, the NMMSS program typically enters the busy season for NRC licensee reconciliations. In anticipation of a busy reporting period, below are some tips to help facilitate a smooth reconciliation. As always, NMMSS analysts are available to provide technical assistance by phone or email. Please see the Points of Contact at the end of this newsletter for a listing of the NMMSS analysts.

1. All Government-owned material is reportable per NUREG/BR-0006, Rev. 7, including all SNM, source material, and other materials listed in the Reportable Elements and Isotopes section of the NMMSS User's Guide.
2. For non-government-owned material, licensees are required to submit a Material Status Report (MSR) when their facilities:
  - Possessed, shipped, or received one gram (> 0.5 g) or more of SNM during the reporting period (see the table below); OR
  - Possessed, shipped, or received one kilogram (> 0.5 kg) or more of foreign obligated source material (natural uranium, depleted uranium, or thorium – see the table below); OR
  - Imports or exports 1 kg (> 0.5 kg) or more of source material.
3. Fillable Forms 742 and 742C (recommended) are posted on the NMMSS website – <http://nnsa.energy.gov/aboutus/ourprograms/nuclearsecurity/nmmsshome/nmmssinfo/doenrcforms>
  - The forms are also posted on the NRC website – <http://www.nrc.gov/reading-rm/doc-collections/forms>

Material	Material Type	Reporting Unit (rounded up)	Weight that is Reported
Enriched uranium*	20	Whole gram	Element and isotope
Plutonium	50	Whole gram	Element and isotope
Uranium-233	70	Whole gram	Element and isotope
Plutonium-238	83	Tenth of a gram	Element and isotope
Depleted uranium	10	Whole kilogram	Element and isotope
Normal uranium	81	Whole kilogram	Element only
Thorium	88	Whole kilogram	Element only

**\*Assay Levels of Enriched Uranium (from NUREG/BR-0007, Rev. 6)**

Report enriched uranium by assay level (see below) on separate MBR forms.

- E-1** Greater than normal but less than 5%
- E-2** 5% or more, but less than 20%
- E-3** 20% or more, but less than 80%
- E-4** 80% or more

*For NRC regulatory questions, please contact Brian Horn at 301-415-7440, [brian.horn@nrc.gov](mailto:brian.horn@nrc.gov) or Mirabelle Shoemaker at 301-415-7363, [mirabelle.shoemaker@nrc.gov](mailto:mirabelle.shoemaker@nrc.gov).*

## Upcoming NMMSS I Training Courses for DOE

The DOE NMMSS I (MCA-112) training course has been scheduled for **February 9-12, 2016**, at DOE Headquarters in Germantown, MD. This course is designed for personnel who have less than two years' experience in nuclear materials accounting.

The desired class size is 12 or less. A minimum of 6 is required to conduct the class. You may register for the class by contacting John Ballard at (301) 903-0092, or by email at [John.Ballard@nnsa.doe.gov](mailto:John.Ballard@nnsa.doe.gov), and providing him with your name, nationality, job title, facility name, address, telephone number, and email address. Students must also register for the class with the National Training Center (NTC) at <https://ntc.doe.gov/default.aspx>. There are no training fees for DOE personnel or DOE contractors.

*If interested, please contact John Ballard by January 31, 2016.*



## Upcoming NMMSS Training Courses for NRC

NMMSS training for NRC licensees and Federal employees is scheduled for **March 22-24, 2016**, at DOE Headquarters in Germantown, MD. This course is designed for individuals with limited experience in NRC reporting requirements or those who need a refresher. The course content is based on NUREG/BR-0006, Rev. 7 and NUREG/BR-0007, Rev. 6. The following topics, among others, will be included:

- Completion of data forms: transactions, inventory, and material balance;
- Inventory reconciliation;
- Foreign obligations reporting; and
- Report products.

The desired class size is 10 or less. A minimum of 6 is required to conduct the class. You may register for the class by contacting John Ballard at (301) 903-0092, or by email at [John.Ballard@nnsa.doe.gov](mailto:John.Ballard@nnsa.doe.gov), and providing him with your name, nationality, job title, facility name, address, telephone number, and email address. Due to security requirements for entering the DOE Germantown facility, all potential students who are not U.S. citizens MUST register for this workshop at least 45 days prior to the instruction dates. There are no training fees for this course.

*If interested, please contact John Ballard by February 28, 2016.*

## Upcoming NMMSS II Training Course for DOE

The DOE NMMSS II (MCA-212) training course has been scheduled for **June 7-9, 2016**, in Paducah, Kentucky. This training addresses topics and report products associated with nuclear materials accounting as they apply to NMMSS. Participants are also encouraged to share NMMSS-related issues and potential problems they may currently be experiencing. The DOE NMMSS I course (MCA-112) is the prerequisite for the DOE NMMSS II workshop.

The desired class size is 12 or less. A minimum of 6 is required to conduct the class. You may register for the class by contacting John Ballard at (301) 903-0092, or by email at [John.Ballard@nnsa.doe.gov](mailto:John.Ballard@nnsa.doe.gov), and providing him with your name, nationality, job title, facility name, address, telephone number, and email address. Students must also register for the class with the NTC at <https://ntc.doe.gov/default.aspx>. There are no training fees for this course.

*If interested, please contact John Ballard by May 15, 2016.*

## Recent NRC Reconciliation Success

Thank you to NRC licensees for a fantastic job in submitting your 2014 material balance information accurately and on time! As part of our ongoing responsibility to the NRC, and with the support of the licensee community, NMMSS analysts successfully completed 314 reconciliations for calendar year 2014.

NMMSS staff is pleased to report the following performance metrics, current as of November 2015:

- 316 out of 321 RISs (97.8%) reported for calendar year 2014 and have been reconciled.
- Nearly half the licensees report their annual material balance on December 31 of each year; for 2014, 141 out of 143 sites (99.3%) reported and have been reconciled.
- 4 RISs reported to NMMSS for the first time and were successfully reconciled.
- **The 2015 reporting period is on track, 144 licensees have already reported and been reconciled**

**Licensees wishing to return excess government-owned nuclear materials, please notify Pete Dessaulles at (301) 903-4525 or [Pete.Dessaulles@nnsa.doe.gov](mailto:Pete.Dessaulles@nnsa.doe.gov); or Jim Crabtree at (301) 903-6008 or [James.Crabtree@nnsa.doe.gov](mailto:James.Crabtree@nnsa.doe.gov).**

## Available NMMSS Products

NMMSS staff has recently updated the following documents that are available to the NMMSS Users.

- D-2: NMMSS Directory of Reporting Identification Symbols (RIS) for Department of Energy sites. This directory contains a listing of RIS's for the DOE sites which NMMSS accepts as valid as of March 2015.
- D-3: NMMSS Directory of Reporting Identification Symbols (RIS) for Nuclear Regulatory Commission/Agreement State licensed sites. This directory contains a listing of RIS's for the licensed sites which NMMSS accepts as valid as of March 2015.
- D-15: NMMSS Directory of Reporting Identification Symbols (RIS) for sites located outside of the United States. This directory contains a listing of RIS's for nuclear sites located outside of the United States and which NMMSS accepts as valid as of March 2015.

SAMS, Version 8.0: SAMS is a facility-based version of the Nuclear Material Management and Safeguards System (NMMSS) software maintained by the U.S. Department of Energy (DOE) and the U.S. Nuclear Regulatory Commission (NRC). The latest SAMS software package provides the NMMSS user the ability to input data and perform edit checks at their facility for transactions, material balance reports, and inventories and provides an updated Authority Reference File.

Copies of the above items are available free of charge. Please contact any of the NMMSS staff. Requests may also be made through the NMMSS mailbox (NMMSS@nnsa.doe.gov) if you would like any of the above items sent to you.

## NMMSS Website Updates

- NMMSS Users Meeting 2015: <http://nnsa.energy.gov/aboutus/ourprograms/nuclearsecurity/nmmsshome>
- Updated DOE/NRC Forms 740M, 741,742, and 742C, both PDF and fillable PDF:  
<http://nnsa.energy.gov/aboutus/ourprograms/nuclearsecurity/nmmsshome/nmmssinfo/doenrcforms>  
<http://nnsa.energy.gov/aboutus/ourprograms/nuclearsecurity/nmmsshome/nmmssinfo/fillableforms>
- Schedule of Upcoming Training in 2016:  
<http://nnsa.energy.gov/sites/default/files/nnsa/inlinefiles/Upcoming%20NMMSS%20Training%20October%202016.pdf>

### Transaction/Inventory Due Dates for DOE Sites

Reporting Month	Transaction Due	Inventory Due
October 2015	November 10	November 16
November 2015	December 10	December 15
December 2015	January 11	January 15
January 2016	February 10	February 16
February 2016	March 10	March 15
March 2016	April 11	April 15
April 2016	May 10	May 16
May 2016	June 10	June 15

### Upcoming 2015-2016 Observed Holidays

Thanksgiving Day	Thursday, November 26
Christmas Day	Friday, December 25
New Year's Day	Friday, January 1
Martin Luther King's Birthday	Monday, January 18
Washington's Birthday	Monday, February 15
Memorial Day	Monday, May 30



## July 2015 NMMSS Points of Contact For Nuclear Material Reporting Technical Support and Assistance

Name	Topic	Phone	Email Address
Karen Antizzo	General Data Submission NMMSS Reports IAEA Reporting	(301) 903-0872	Karen.Antizzo@nnsa.doe.gov
John Ballard	DOE/NNSA Reconciliation Training SAMS Software	(301) 903-0092	John.Ballard@nnsa.doe.gov
Elaine Beacom	Foreign Obligations International Reporting	(301) 903-1328	Elaine.Beacon@nnsa.doe.gov
Carl Berger	General Inquiries Special Data Requests	(301) 903-3656	Carl.Berger@nnsa.doe.gov
Mitch Hembree	Special Data Requests Foreign Obligations	(301) 903-6299	Mitch.Hembree@nnsa.doe.gov
Gary Hirsch	IAEA Select Facilities NMMSS Software Inquiries	(301) 903-6870	Gary.Hirsch@nnsa.doe.gov
Mark Huffman	NRC Licensee Reconciliation Licensee Data	(301) 903-0236	Mark.Huffman@nnsa.doe.gov
Mary McConnell	NRC Licensee Reconciliation Licensee Issues	(301) 903-6240	Mary.McConnell@nnsa.doe.gov

### Program Management

**Department of Energy**  
 Peter Dessaules (301) 903-4525  
 Pete.Dessaules@nnsa.doe.gov

**Nuclear Regulatory Commission**  
 Brian Horn (301) 415-7440  
 Brian.horn@nrc.gov  
 Mirabelle Shoemaker (301) 415-7363  
 Mirabelle.shoemaker@nrc.gov

### International POC

**DOE International POC**  
 James Crabtree (301) 903-6008  
 James.Crabtree@nnsa.doe.gov

**NRC International POC**  
 Santiago Aguilar (301) 415-7918  
 Santiago.Aguilar@nrc.gov

**EMAIL: NMMSS@nnsa.doe.gov**  
**Unclassified Fax: (301) 903-1998**  
**www.nnsa.energy.gov/nmmss**

## Unclassified/Overnight Surface Mailing Addresses

### Unclassified

#### Karen Antizzo

NMMSS Program, NA-532/Germantown Bldg.  
 U.S. Department of Energy  
 1000 Independence Avenue, SW  
 Washington, DC 20585-1290

### Overnight – Unclassified

#### Karen Antizzo

Attn: NMMSS Program, NA-532  
 U.S. Department of Energy  
 19901 Germantown Road  
 Germantown, MD 20874-1207

### Classified

The NMMSS classified mailing address is available on the Safeguards and Security Information Management System (SSIMS) or by calling a NMMSS analyst. Identify Karen Antizzo as the recipient and NA-532 as the organization.

**IMPORTANT:** The “DO NOT X-RAY” marking does not prevent incoming packages from being sanitized. Please package compact discs (CDs) in cardboard rather than plastic casings. The plastic is heated by the sanitization machine, thereby warping the CD. There is less chance of this occurring if the CD is packaged in cardboard.

For information on transmitting classified data to NMMSS electronically, contact Jim Crabtree, (301) 903-6008 or James.Crabtree@nnsa.doe.gov.

NMMSS News is sponsored by the Department of Energy (POC: Pete Dessaules, Pete.Dessaules@nnsa.doe.gov, (301) 903-4525) and the Nuclear Regulatory Commission (POC: Brian Horn, Brian.Horn@nrc.gov, (301) 415-7440; Mirabelle Shoemaker (301) 415-7363, mirabelle.shoemaker@nrc.gov). Please provide feedback or suggested topics of interest to Karen Antizzo at Karen.Antizzo@nnsa.doe.gov, (301) 903-0872.